

**DEPARTMENT OF ENERGY  
 CARLSBAD AREA OFFICE  
 FACSIMILE TRANSMITTAL ROUTING SHEET  
 TELEFAX NUMBER 887-0292**

*Steve attending  
 file WIPR*

**Pages:** 8 **Date:** 9-13-94 **Time:** 1500 hrs  
 (including cover)

**To:**

*BARBARA HODITSCHER*

**Location:**

*Smith FE*

**Fax #:**

*(505) 827-4361*

**From:**

*CRAIG SNIDER*

**Location:**

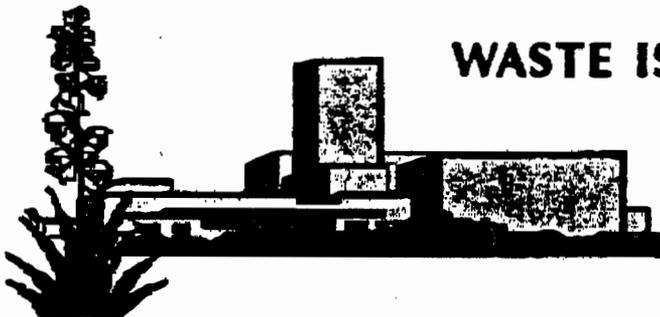
*CARLSBAD*

**Phone/Fax #:**

*(505) 234-7452 fax (505) 887-0292*

**Special instructions:**

*PLEASE CALL BARBARA UPON RECEIPT*



**WASTE ISOLATION PILOT PLANT**

**CARLSBAD, NEW MEXICO**



Barbara:

Please find the attached "draft" agenda for an upcoming Waste Characterization meeting to be held in Carlsbad October 4-6th. At this time, please use this agenda as a list of the topics to be discussed, not in this particular order. The various other methods for characterization other than non-destructive will be highlighted but not discussed in detail.

I believe this meeting will prove informative and answer many of the questions you and Benito had at our August 31st meeting. Following the meeting on October 6th and even on the 7th, we can hold an informal discussion to answer your other concerns regarding the FFCA treatment options, FTIR system, QAPP/QAPjP status, and overall status of the entire waste characterization program. ✓

Please let me know your ideas and if you prefer a more detailed briefing on any of the above issues, or if you have other concerns you'd like addressed.

Thanks,



Craig A. Snider

To: NDA/NDE IWG Membership

August 28, 1994

From: Bill Weston/Westinghouse/WID

Subject: NEXT NDA/NDE IWG MEETING

During the last year I have relentlessly solicited the support of the NDA/NDE IWG membership to hold their next meeting in Carlsbad NM. The reasons for making this request were numerous. From a programmatic perspective, Carlsbad is now the home of the recently established National TRU Programs Office (NTPO). As with all transitions of this magnitude within the DOE, many of the issues and priorities affecting the management of TRU waste will be subject to review and change. By meeting in Carlsbad, the IWG membership can offer the NTPO their services and technical expertise in resolving the many problems associated with non-destructive methods of waste characterization. In addition the business of implementing the radioassay methods Performance Demonstration Program must continue. Since the sponsor of this activity, Jeff Williams (DOE/EM-351), is now in Carlsbad for a three month detail, there appears to be no more opportune time or place. Last but not least, Carlsbad is the home of the Waste Isolation Pilot Plant (WIPP) - a facility which the majority of the IWG membership have never had the opportunity to visit. Yet it is the WIPP's Waste Acceptance Criteria that provides the major driver for much of the NDA/NDE instrumentation development to which our membership periodically engage themselves.

With the recent polling of the IWG membership by Jeff Chapman and myself, October 4-6 was determined to be the most suitable time for holding the next NDA/NDE IWG meeting in Carlsbad.

Consequently, with the consent of the DOE and the IWG officers, I am happy to announce the next meeting of the NDA/NDE IWG to be October 4-6 in Carlsbad NM. Attached is the draft agenda of the meeting and the majority of the information you will need to prepare your travel itinerary. Since you might be interested in attending the International Balloon Fiesta in Albuquerque NM which starts the weekend before and ends the weekend after our meeting, information is enclosed. Additional information is also provided on the 19th DOE Compatibility, Aging and Service Life Conference at Los Alamos the week of September 28-30. If you have any questions, please call either Camille Shoemake at 505-234-7521 or myself at 505-234-7517.

Attachments: Questionnaire (please complete and FAX back to me ASAP)  
Draft Agenda  
#1 Hotel/Meeting Information  
#2 Airline Information  
#3 Ground Transportation Information  
#4 Shuttle Transportation Information  
#5 Albuquerque International Balloon Fiesta Information  
#6 19th DOE Compatibility, Aging and Service Life Conference

# DRAFT

## NON-DESTRUCTIVE ASSAY/NON-DESTRUCTIVE EXAMINATION INTERFACE WORKING GROUP MEETING

Carlsbad, NM  
October 4-6, 1994

### AGENDA

Tuesday Morning, October 4, 1994

#### REGISTRATION

(8:00 - 8:30)

#### INTRODUCTORY REMARKS

8:30 - 8:40           Welcome  
                      Bill Weston/Westinghouse/WID

8:40 - 8:50           NTPO Mission  
                      Mark Matthews/DOE/NTPO

8:50 - 9:00           NTPO Waste Characterization Program  
                      Jeff Williams/DOE/EM-351

9:00 - 9:20           "The Dawning of a New Day - Identification of  
                      the Path Forward for the NDA/NDE IWG"  
                      Fred Schultz, ORNL

#### SESSION 1 - WASTE CHARACTERIZATION ISSUES/DRIVERS (Chairperson - Fred Schultz/ORNL)

9:20 - 9:40           "Waste Characterization Issues Identified  
                      From Site Visits - An EPA Perspective"  
                      Jim Benetti, ORIA/EPA

9:40 - 10:00          "Waste Characterization Issues Identified  
                      From The Generator/Storage/Disposal Site  
                      Perspective - The Other Side of the Coin"  
                      Bill Weston, Westinghouse, WID

10:00 - 10:20         "NDA/NDE - Why Are We Doing This? A Waste  
                      Transportation Perspective"  
                      Phil Gregory, Westinghouse, WID

#### BREAK

(10:20 - 10:50)

10:50 - 11:10         "Small Quantity Sites Waste Characterization  
                      Requirements"  
                      Joe Lippis, DOE/NTPO

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- 11:10 - 11:30 "Who's Driving This Train? An Identification of the Regulatory Drivers for NDA/NDE Waste Characterization"  
Dorothy Davidson, Canberra
- 11:30 - 11:50 "Status of the WIPP WAC - Dead or Alive!"  
Jeff Williams, DOE/EM-351
- 11:50 - 12:10 "Performance Based WAC - What Does it Mean?"  
Paul Drez, Drez Environmental Associates
- 12:10 - 12:30 "What is Adequate Process Knowledge?"  
John Elliott, Westinghouse, SRS

**LUNCH**

(12:30 - 1:30)

**Tuesday Afternoon, October 4, 1994****SESSION 2 - DATA QUALITY ASSURANCE**

(Chairperson - Greg Becker/INEL)

- 1:30 - 1:50 "Waste Characterization Quality Assurance Program Plan - The Big Picture"  
Mike Connolly, EG&G, ID
- 1:50 - 2:10 "Radioassay Methods Data Quality Objectives - A Moving Target?"  
Charles Marcinkiewicz, CONTECH
- 2:10 - 2:25 "The ABCs of Preparing Hanford's Waste Characterization QAPjP"  
Dick Lipinski, Hanford
- 2:25 - 2:40 "Progress Report on the Preparation of the SRS's Waste Characterization QAPjP"  
John Elliott, SRS

**BREAK**

(2:40 - 3:10)

**SESSION 3 - PERFORMANCE DEMONSTRATION PROGRAM**

(Chairperson - Joe Wachter/LANL)

- 3:10 - 3:30 "PDP Status, Budget, and Schedule - An Optimistic Outlook"  
Jeff Williams, DOE/EM-351
- 3:30 - 3:50 "PDP Implementation Plan"  
Mike Connolly, EG&G, ID
- 3:50 - 4:10 "Design and Fabrication of Matrix Standards"  
Greg Becker, EG&G, ID

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- 4:10 - 4:30 "Design and Fabrication of Source Standards"  
Greg Becker, EG&G, ID
- 4:30 - 5:00 PDP Discussion

**EVENING SOCIAL**

**Living Desert State Park and Gardens**  
Skyline Drive  
(6:00 - 9:00)

Tuesday's evening social will be held at the Living Desert State Park and Gardens located on a nearby knoll overlooking the city of Carlsbad. The facility will be opened to the NDA/NDE IWG participants and their guests only. Refreshments will be served and there will be a no-host bar. Opportunity to experience the Chihuahuan desert is at your beckoning call by browsing through the botanical garden and viewing the many interesting and informative historic, mineral, and natural science exhibits.

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**Wednesday Morning, October 5, 1994****BREAKFAST REFRESHMENTS**

(8:00 - 8:30)

**INTRODUCTORY REMARKS**

- 8:30 - 8:35 Meeting Announcements  
Camille Shoemake, Westinghouse. WID
- 8:35 - 8:40 NDA/NDE IWG Announcements  
Fred Schultz, ORNL
- 8:40 - 9:00 LANL's Development of a Waste  
Characterization Methods Training Course  
Norbert Ensslin, LANL

**SESSION 4 - MEASUREMENT FUNDAMENTALS**

(Chairperson - Tim Roney/INEL)

- 9:00 - 9:20 "The Reality of RFP Matrix/Source Waste  
Characteristics"  
Greg Becker, EG&G Idaho Inc.
- 9:20 - 9:40 "Calculations for Waste Characterization"  
Ralph Hemmer, RFP
- 9:40 - 10:00 "The Various Flavors of Fissile Gram Equivalent  
as a Waste Characterization Parameter"  
Jeff Chapman, ORNL
- 10:00 - 10:20 "The ASTM Good Practices Guide"  
Richard Hane, SRS

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**BREAK**

(10:20 - 10:50)

**SESSION 5 - STATUS REPORTS**  
(Chairperson - Ken Coop/LANL)

- 10:50 - 11:10 "Waste Characterization Technology Development - A Future Vision"  
Al Tardiff, DOE/EM-542
- 11:10 - 11:30 "Radiological and Hazardous Material Measurement System - A Status Report"  
Tim Roney, EG&G Idaho Inc.
- 11:30 - 11:50 "Active and Passive Gamma-Ray Computer Tomography Applied to Quantitative Waste Assay - A Status Report"  
Harry Martz, LLNL
- 11:50 - 12:10 "Combined Thermal Epithermal Neutron Interrogation - A Status Report"  
Ken Coop, LANL

**LUNCH**

(12:10 - 1:30)

**Wednesday Afternoon, October 5, 1994****SESSION 6 - STATUS REPORTS (Continued)**  
(Chairperson - Harry Martz/LLNL)

- 1:30 - 1:50 "Results of NDA/NDE Instrumentation Survey - A Status Report"  
Bill Weston, Westinghouse, WID
- 1:50 - 2:10 "Hanford WRAP Facility NDA/NDE Design Base - A Status Report"  
Jim Weber, Hanford
- 2:10 - 2:30 "Tomographic Gamma Scanner - A Status Report"  
Robert Estep, LANL
- 2:30 - 2:50 "In-Situ, Real Time, Elemental Characterization of 55-Gal Waste Drums Using Prompt Gamma Neutron Activation Analysis"  
David Weigle, SEG

**BREAK**

(2:50 - 3:20)

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## SESSION 7 - NDE DEVELOPMENTS (Chairperson - Boyd Howard/SRS)

- 3:20 - 3:40 "High Throughput Radioscopic Examination of 55-Gal Waste Drums"  
Tim Roney, EG&G Idaho Inc.
- 3:40 - 4:00 "3D Tomographic and Radiographic Visualization of Mock Waste Drum Contents"  
John Steude, SMS
- 4:00 - 4:20 "Lens Coupled Digital Radiography of Drums"  
Boyd Howard and Richard Poland, SRS
- 4:20 - 4:40 "Distributed Radiographic Databases"  
David Forslund, LANL
- 4:40 - 5:00 "NDE Characterization of Processed Waste - A View Within Vitrified Logs"  
Russell Schonberg, Schonberg Research Corp

### EVENING SOCIAL

#### Dinner and Melodrama Theater

White City  
(6:00 - 10:00)

Wednesday's evening social will be held at Granny's Opera House where the crowd interacts (plenty of popcorn to throw) with both the actors and each other at the melodrama theater. Everyone is invited to this no-host affair. Ample opportunity exists for the NDA/NDE IWG participants and their guests to take in the evening exodus of the Mexican free-tail bats from the natural entrance of nearby Carlsbad Caverns, enjoy a Mexican buffet dinner, and/or just enjoy a serene walk in the scenic Chihuahuan desert.

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#### Thursday Morning, October 6, 1994

#### Breakfast Refreshments

(7:30 - 8:00)

## SESSION 8 - NDA DEVELOPMENTS (Chairperson - Richard Hane/SRS)

- 8:00 - 8:20 "Linear Accelerator Based Assay Measurements of RH Waste"  
Jeff Chapman, ORNL
- 8:20 - 8:40 "Waste Characterization of RFP Residues"  
Nancy Jo Nicholas, RFP
- 8:40 - 9:00 "A Collimated and Focused Neutron Probe of Large Volume Containers"  
Yale Harker, EG&G, ID

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9:00 - 9:20 "Applications of PAN MCNP Drum Counter Model"  
Larry East, EG&G, ID

**BREAK**

(9:20 - 9:50)

**SESSION 9 - TECHNOLOGY TRANSFER/MOBILE SYSTEM DEVELOPMENT**  
(Chairperson - )

10:10 - 10:30 "Waste Inspection Tomography - Work in  
Progress to Develop and Demonstrate a Mobile  
NDA/NDE System"  
Dick Bernardi, BIR Inc.

10:30 - 10:50 "Transfer of Mobile NDA/NDE Systems to LANL  
and SRS"  
Steve Betts, LANL

10:50 - 11:10 "Transfer of the SWEPP Assay System Software  
to LANL and RFP"  
Larry East, EG&G Idaho Inc.

11:10 - 11:30 "Los Alamos Safeguards Commercialization  
Efforts Program"  
Mark Pickrell, LANL

**SESSION 10 - CLOSING REMARKS AND SUMMARY**  
(Chairperson - Bill Weston/WIPP)  
(11:30 - 12:00)

**HOSTED LUNCH AND WIPP SITE TOUR**

12:30 Depart for the WIPP Site

12:30 - 1:30 Lunch served en route to the site

1:30 Check-in at WIPP Site

1:30 - 2:00 Safety Briefing

2:00 - 4:00 Underground and Surface Tours

4:30 Depart for Carlsbad

5:30 Arrive back in Carlsbad

6:30 Last Mesa flight of the day to depart  
Carlsbad for Albuquerque